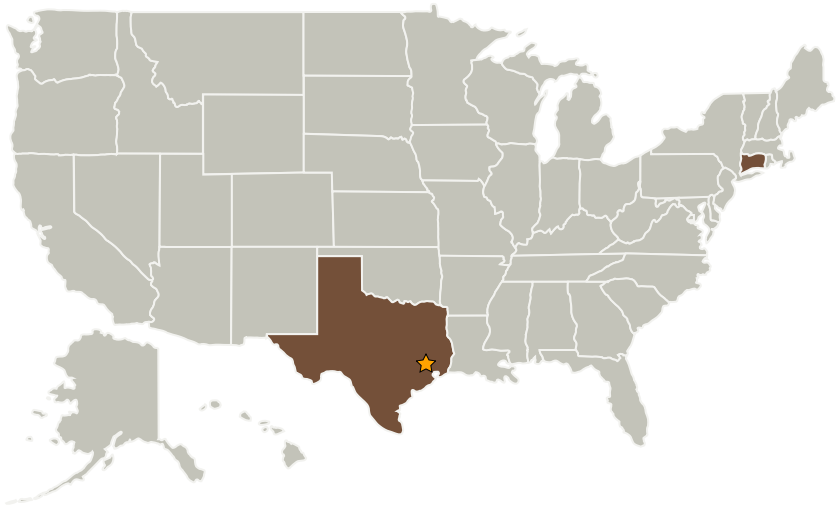
Next Generation MK III Lightweight HUT/Hatch Assembly, Phase II

Completed Technology Project (2004 - 2006)

Project Introduction

A prototype Next Generation MK III Lightweight HUT/Hatch Assembly will be fabricated and delivered during Phase II. Maximum weight reduction for the Hard Upper Torso - Hatch assembly will be acheived via the innovative material selection and cross sectional redesign investigation Air-Lock conducted during Phase I. The intent is to fabricate a lightweight HUT/Hatch Assembly best suited for space & planetary (or lunar) exploration. This Next Generation MK III Lightweight HUT/Hatch Assembly will be a rear entry assembly and have full "plug and play" capability with previous MK III suits.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Johnson Space Center(JSC)	Lead Organization	NASA Center	Houston, Texas
Air-Lock, Inc.	Supporting Organization	Industry	Milford, Connecticut

Primary U.S. Work Locations	
Connecticut	Texas

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Johnson Space Center (JSC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX06 Human Health, Life Support, and Habitation Systems
  - TX06.2 Extravehicular Activity Systems
    - TX06.2.4 Decompression Sickness Mitigation